

AUTOPILOT CONTROL PANEL

MASTER SWITCH . . .
turns on . . . amplifier,
rotary inverter, vertical
flight gyro, and three servo
units . . .

(Turn on after take-off)

**CENTER THE "TELL-TALE" LIGHTS
BEFORE TURNING ON SWITCHES**
(Rudder switch energizes "ERECTING
CUT-OUT" and "DIRECTIONAL ARM
LOCK" circuits)

DIRECTIONAL STAB.

TORQUE MOTOR

**PILOT DIRECTOR
INDICATOR . . . SHOWS
DIRECTION OF COURSE CORRECTION
. . . OR WHETHER DIRECTIONAL
STABILIZER IS LOCKED TIGHT FOR
TURNS (Turn on five minutes after
Master Switch)**

REMOTE CONTROL

BANK TRIMMER...
REGULATES THE AMOUNT OF BANK
FOR A DIRECTIONAL PANEL TURN
ONLY

SKID TRIMMER...
REDUCES THE TENDENCY TO SKID
FOR A DIRECTIONAL PANEL TURN

CENTERING . . . ALIGNS
THE CENTER OF "ELECTRICAL CONTROL
SYSTEM" WITH THE "TRIM" POSITION
IN FLIGHT (Indicated by Tell-Tale lights)

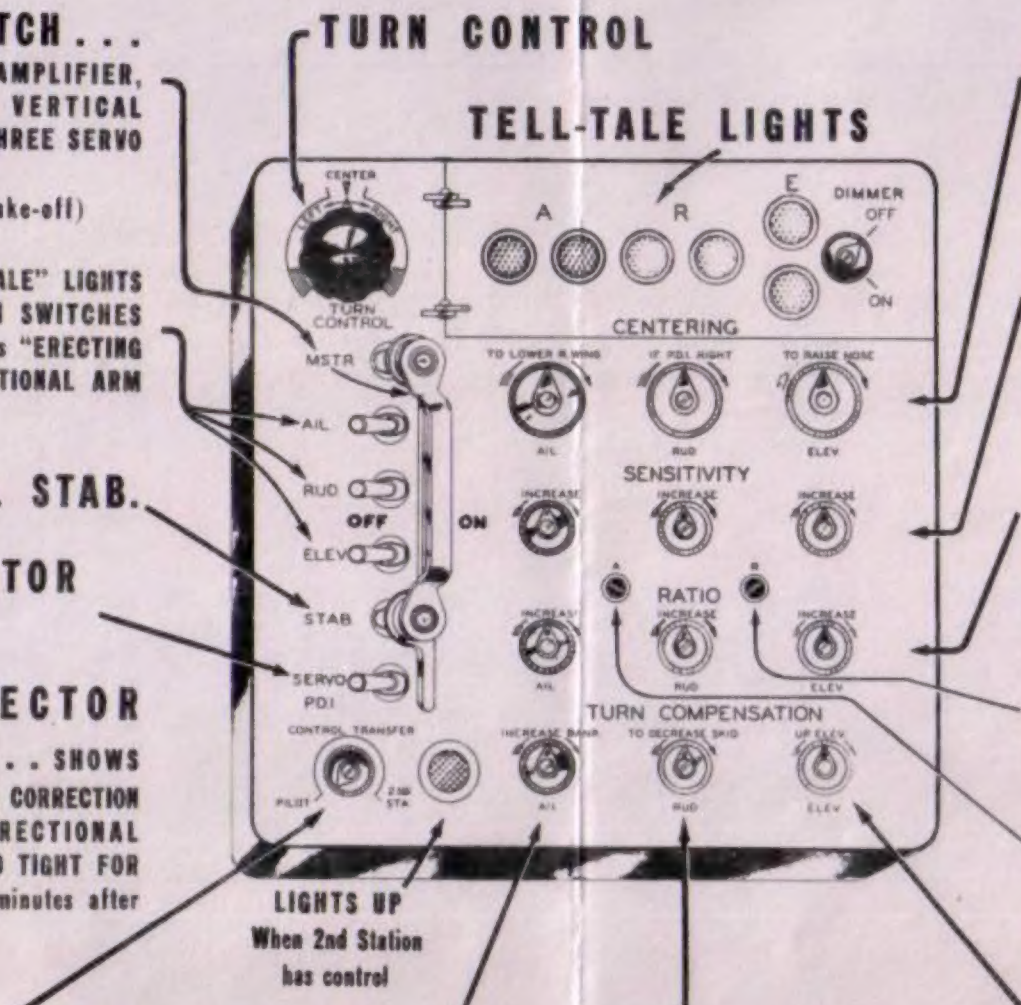
SENSITIVITY . . . REGULATES THE ALLOWABLE SHIP MOVEMENT (FLIGHT RIGIDITY) BEFORE THE AUTOPILOT BEGINS TO CONTROL

RATIO . . . REGULATES THE AMOUNT OF CONTROL-SURFACE DISPLACEMENT (Speed of Response) FOR A GIVEN SIGNAL (Deviation from course)

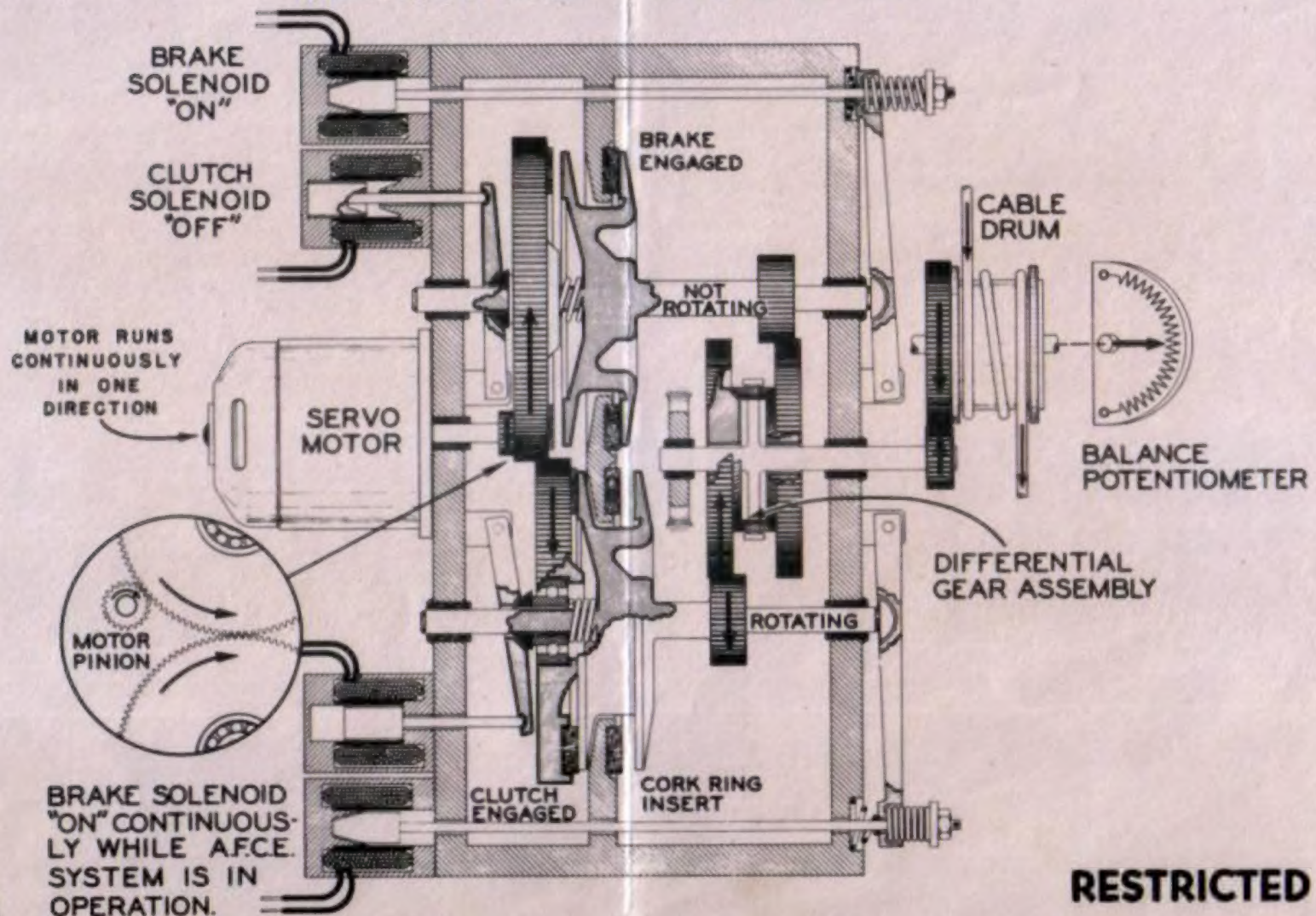
**TURN CONTROL
RUDDER TRIMMER**
(Check with Ball-Bank Inclinometer)

**TURN CONTROL
AILERON TRIMMER**
(Check with Artificial Horizon)

ELEVATOR TRIMMER
REGULATES THE AMOUNT OF UP-
ELEVATOR FOR BOTH DIRECTIONAL
PANEL AND TURN CONTROL TURNS

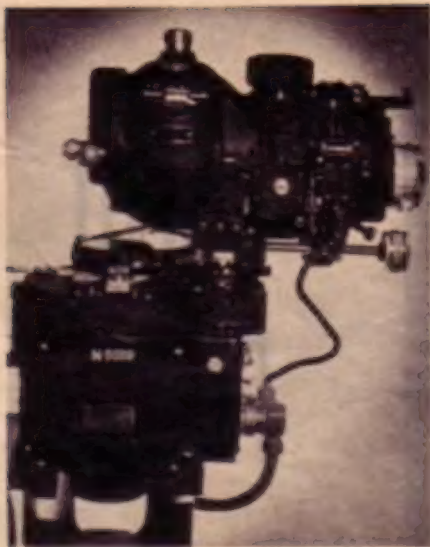


SERVO UNIT MECHANICAL SCHEMATIC



(D)

RESTRICTED



11. No longer secret is the:

- | | |
|---------------------|--------------------|
| a) radar detector | c) television bomb |
| b) Norden bombsight | head |
| | d) automatic pilot |

- 1- TRIM THE SHIP adjust the electrical trim to the manual
- 2- The sensitivity knobs are used to vary the degree the plane can move before the C-1 takes effect.
- 3- The "decrease ship", "increase bomb" and "up elevator" are used.
- 4- The POI stabilizer gyro.
- 5- "Up elevator" knob
- 6- ~~down~~ off
- 7- "decrease ship" knob
- 8-
- 9-
- 10- 10° the gyro tumbles at 22°
- 11- Centering knobs
- 12- low
- 13- Master switch stabilizer gyro
- 14- 0 position
- 15-
- 16- air.
- 17- Bomb legs